

PRE-XFP-Cxx-80, PRE-XFP-Cxx-80I
XFP, CWDM, 1470 – 1610nm, SMF, 80km, 10Gbps



Product Features:

- EML Transmitter
- APD Receiver
- 20nm ITU CWDM Grid
- SMF Transmission Medium
- LC-UPC Connector Type
- Digital Diagnostics Monitoring (DDM)
- C-Temp and I-Temp Available
- Supports Bit Rates up to 11.3Gbps



Product Applications:

- 10G Ethernet
- CPRI
- Fiber Channel

General Specifications

| Parameter | Symbol | Min | Typ | Max | Unit |
|---|----------|------|-----|------|------|
| Case Operating Temperature (Commercial) | T_{op} | 0 | - | 70 | °C |
| Case Operating Temperature (Industrial) | T_{op} | -40 | - | 85 | °C |
| Power Consumption | P_w | - | - | 3 | W |
| Power Supply Current | I_{cc} | - | - | 760 | mA |
| Power Supply Voltage | V_{cc} | 3.13 | - | 3.47 | V |
| Storage Humidity | H_s | 5 | - | 95 | % |
| Storage Temperature | T_s | -40 | - | 85 | °C |
| Transmission Distance | TD | - | - | 80 | km |
| Data Rate (Total) | DR_T | 9.95 | - | 11.3 | Gbps |

Optical Characteristics: Transmitter

| Parameter | Symbol | Min | Typ | Max | Unit |
|------------------------------|-------------|-------------------|-----|-------------------|------|
| Center Wavelength | λ_c | $\lambda_c - 6.5$ | - | $\lambda_c + 6.5$ | nm |
| Transmit Power | P_{OUT} | 0 | - | 4 | dBm |
| Spectral Width | σ | - | - | 0.3 | nm |
| Side Mode Suppression Ratio | SMSR | 30 | - | - | dB |
| Dispersion Penalty | DP | - | - | 2.0 | dB |
| Extinction Ratio | ER | 8.2 | - | - | dB |
| Transmitter OFF Output Power | P_{OFF} | - | - | -30 | dBm |

Optical Characteristics: Receiver

| Parameter | Symbol | Min | Typ | Max | Unit |
|------------------------|-------------|------|-----|------|------|
| Receiver Wavelength | λ_r | 1270 | - | 1610 | nm |
| Input Saturation Power | P_{SAT} | -8 | - | - | dBm |
| Receiver Sensitivity | R | - | - | -21 | dBm |
| LOS Assert | LOS_A | -37 | - | - | dBm |
| LOS De-Assert | LOS_D | - | - | -27 | dBm |
| LOS Hysteresis | LOS_H | 0.5 | - | - | dB |

Product Ordering Information

| Part Number | Description |
|-----------------|---|
| PRE-XFP-Cxx-80 | XFP, CWDM, 1470 – 1610nm, SMF, 40km, 10Gbps, C-Temp |
| PRE-XFP-Cxx-80I | XFP, CWDM, 1470 – 1610nm, SMF, 40km, 10Gbps, I-Temp |